Your Single-Source for Converting Equipment

As the leading manufacturer of high-tech web converting equipment, Faustel designs and builds complete coating and laminating solutions from components to full lines. This includes web drying and curing, winding, and control systems. Faustel equipment uses the finest in raw materials, and strict quality control ensures that exact specifications are met every step of the way. Equipment is thoroughly tested before it is shipped to guarantee it delivers optimum performance.

For six decades, Faustel has created sophisticated machinery to bring innovative products to market. Everything from food packaging to electronic display screens, tapes and labels to medical products, window film to filter membranes, and lithium ion batteries to aircraft composites are included. Faustel leads the way by establishing close partnerships with our customers.

Our mission is to be a customer-focused company dedicated to supplying innovative, high quality products for the converting industry. Integral to our success is providing products that are safe for our customers to operate, and a safe work environment for our employees.

MARKET
Faustel serves customers who convert paper, film, non-woven, and composite substrates into value-added finished goods.

PRODUCTS
Web Coating Lines
Components
Coating
Laminating
Winding
Modular Systems
TecMaster R&D Pilot Coater
LabMaster Pilot Coater
Modular Coating Lines
Specialized Solutions
Clean Room

LOCATIONS
Our corporate office and main manufacturing facility is conveniently located just outside of Milwaukee and a short distance from the Chicago metro area.
Our plant in Xiamen, China offers a local source for Western equipment in the Asia-Pacific market. Faustel designs and builds to the highest standards using name brand components and precise manufacturing methods.
COATING
- Cartridge • 5-Roll
- Gravure • Mayer Rod
- Reverse Roll • Slot Die
- Vari-Coat • Flexographic • Patch
- Comma Roll • Knife

LAMINATING
- Dry • Wet • Thermal

WINDING
- Auto Transfer • No Fold
- Continuous • Flying Splicers
- Turret • Accumulators
- Fixed/Dual Position
- Shafted • Shaftless

DRYING
- Convection
- Floatation • Roll Support
- E-Beam Curing • UV Curing
- Aqueous • Solvent • Solventless

CONTROLS
- Operator • Machine
- Drive Systems
- SCADA • Touch Screen
- AC Vector & AC Servo Technology

AUXILIARY
- Moisturizers • Web Guides
- Coating Gauges • Web Cleaners
- Corona Treaters • Roll Handling
- Inspection Systems

CAPABILITIES
- Widths to 159" (4040 mm)
- Speeds to 3000 fpm (914 mpm)
- Films from 0.3 mil to 30 mil (7.6 micron to 762 micron)
- Papers from 30 lb. to 38 pt.
- Metals from .0003" (7.6 micron) aluminum to 0.060 (1.5 mm) steel
- Nonwovens (Spun Bond, Melt-blown, Wet Laid Glass)
Faustel is putting tomorrow’s solutions to work today with converting machinery that combines advanced control concepts, exacting mechanical tolerances, precise repeatability, and the latest coating and curing technology. Faustel’s complete coating and laminating systems feature converting equipment that is equipped with simplified controls, often requiring fewer operators, while providing them with better on-line information. Each system demonstrates a proven design backed by reliable support. The result is a machine that offers years of consistently high productivity.

Example Lines
1. Tape and Label
   PSA & Release Coating w/Lamination
   Speed: 366 mpm (1,200 fpm)
   Width: 1,575 mm (62”)

2. Release Paper
   Silicone Coating
   Speed: 305 mpm (1,000 fpm)
   Width: 1,905 mm (75”)

3. Cable Shielding
   Foil to Film Lamination
   Speed: 305 mpm (1,000 fpm)
   Width: 1,905 mm (75”)

4. Medical Device
   Gel Coating w/Lamination
   Speed: 18 mpm (60 fpm)
   Width: 686 mm (27”)

5. Solar Control & Safety Window Film
   Film to Film Lamination
   Speed: 152 mpm (500 fpm)
   Width: 1,867 mm (73.5”)

Example Products Made on Faustel Equipment
- Aerospace Laminates
- Batteries and Battery Separators
- Building Materials
- Electronic Displays
- Pharmaceutical Packaging
- Filtration Media
- Food Packaging
- Medical Devices
- Nonwoven Laminates
- Pharmaceuticals
- Photovoltaic Solar Cells
- Printed Electronics
- Reverse Osmosis Membranes
- Tapes and Labels
- Veneer for Furniture and Flooring
- Signage & Vehicle Graphics
- Window Film

Don’t see your solution? Please call (262) 253-3333.
MODULAR COATING LINES

MCL-300™ & MCL-600™
Modular Coating Lines Offer Flexibility & Reliability

The MCL is available in 300 mm and 600 mm configurations and serves a variety of end-use applications. A wide range of coatings including solvent, aqueous, E-Beam and UV may be processed on the MCL with the available standard options offered. The modular design utilizes pre-engineered components. A complete MCL, even with customization, can be delivered quickly at a lower cost than an equivalent machine created using reconfigured custom drawings, all without sacrificing quality. Configuration flexibility makes the MCL highly adaptable to fit the needs of all markets.

MODULAR COMPONENTS
• Pre-Engineered Components can be delivered quickly at a lower cost than completely custom equipment.
• Integral drive and control cabinets for each component eases future reconfiguration.
• Factory pre-wiring minimizes installation time and expense.
• Interchangeable Coating Modules satisfy a broad range of applications.

LABMASTER™
Narrow Web Production and Pilot Coating Line

The 300 mm LabMaster Pilot Coater is ideally suited for R&D and narrow web production coating/laminating. Pre-engineering allows Faustel to offer the LabMaster at an economical price, with a shortened delivery cycle. The LabMaster is a complete pilot line that includes two unwinds, dryer, dry bond laminator with chill rolls, and rewind with integrated drives and controls. Coating modules are interchangeable so the LabMaster can be configured for a variety of coating methods that satisfy a broad range of applications.

TECMASTER™
R&D Lab/Pilot Coating Line

The 150 mm TecMaster Lab/Pilot Coater is an ideal choice for laboratory and R&D work. It is a stand alone, mini lab line that includes two coating heads, two unwinds, dryer, laminator and rewind with integrated drives and controls. Whether you need product development or process validation, the TecMaster facilitates continuing R&D while not diverting valuable resources from production equipment.
SCALABLE • REPRODUCIBLE

Diversity In Web Coating Applications

In widths ranging from 150 mm to 4,040 mm, Faustel coaters are designed to provide consistent, high-quality performance with the flexibility of direct process scale up to a wider width should the need arise. By using proven designs and precision components, Faustel is able to effectively apply our experience to the production challenges faced by today’s companies. Our strong engineering focus enables us to take on projects that require highly customized solutions validated with trial data from our in-house technology center. Whether your equipment needs are simple or complex, Faustel is a strong partner you can rely on.

COATER SPECIFICATIONS

- Web Width: 150 mm-4,040 mm (6”-159”)
- Speed: Up to 914 mpm (3,000 fpm)

OPTIONS

- Coating Cartridges
- Sleeve Systems
- Fluid Delivery Systems
- Clean Room Construction
- Vapor Capture Enclosures

DECADES OF RELIABILITY

Faustel’s broad experience in coater design provides a vast selection of reference work to leverage when developing a specialized coater for your process. Utilizing the latest technology, including servo positioned adjustments and laser measurement systems, all combined with user-friendly operator control features, is assurance of the reliability of your Faustel coater for many decades to come.
In the 1950's, Faustel challenged the converting industry by offering coating and laminating machinery to a wide range of companies and converters previously kept behind closed doors by larger converters. The space age of the 60's spurred the need for innovation. As Faustel's reputation grew, Fortune 100 companies in medical, automotive, electrical, textile and even the aerospace industry urged Faustel to develop coating equipment and processes to handle breakthrough advances in polymer chemistry. As the packaging industry attempted to join together individual machines into complete lines, Faustel worked with them to develop converting solutions that provided stable web tensions throughout the line, increased web speeds, reduced waste, and improved output quality. Throughout the decades Faustel has continued to work with customers on specialized coating, laminating, and winding innovations that keep them one step ahead of their competitors. Today Faustel manufactures converting equipment for virtually every industry.

With our technology center, engineering team, and manufacturing facility all in one building, Faustel is positioned to efficiently manage projects and effectively respond to customer needs. Contact Faustel today at sales@faustel.com or (262) 253-3333.

COATING TECHNOLOGIES

REPUTATION • KNOWLEDGE

Innovative Coating Technologies since 1956

Faustel manufactures a broad range of coating equipment running a wide range of methods for 100% solids, solvent, and aqueous coatings, ranging in viscosity from as low as 1 cps to more than 100,000 cps. Application thicknesses range from 2 microns to 200 microns.

For a complete list of coating methods visit our website at www.faustel.com.

CARTRIDGE COATER

The Cartridge Coater is designed for maximum flexibility and ease of use. Precision construction ensures accuracy and repeatability when changing cartridges. The roll sleeve system facilitates quick web width changes while the cartridges themselves can be set up or cleaned off-line.

CARTRIDGE COATER with VARI-COAT GRAVURE CARTRIDGE

Faustel's Vari-Coat Gravure system is a major advancement in gravure coating technology. Benefits include the ability to deliver a variety of coat weights from a single gravure cylinder. This is accomplished by controlling and varying the internal pressure in an enclosed applicator and gravure roll speed.

QUICK CHANGE SLEEVE

The Faustel sleeve system utilizes a tapered mandrel with air valve for quick change of the rubber covered sleeve. Featuring a cantilevered design, sleeves can be changed in minutes without removing the mandrel from the machine.
SOPHISTICATED • EFFICIENT

Innovative Winding Systems

Cutting edge winding systems from Faustel offer reliable solutions for paper, foil, film, and nonwoven materials. The available flexibility of shafted and shaftless operation on virtually any winder configuration, allows your manufacturing operations to easily adapt as product requirements change. After a careful review of customer process requirements, Faustel engineers apply the most economical equipment design to fit the specific application. Offering a wide range of options, from a single fixed spindle, to cantilevered shafts, floor pick-up, and multi-spindle turrets, Faustel designs are time-proven with features and durability customers have come to rely on.

PERFECTSTART™
No-Fold Rewind Auto Transfer System

PerfectStart™ is a patented core-to-core transfer system that allows a running web to transfer to a new core on the fly. This patented transfer system provides a completely controlled, no-fold-back, wrinkle free transfer to the new core.

STANDARD REWIND TRANSFER DAMAGES PRODUCT

- Standard Rewind tail left after transfer folds back and wrinkles
- Standard Rewind wrinkles propagate through wound roll
- Tail induced damage to wound product

PERFECTSTART TRANSFER MINIMIZES SCRAP

- PerfectStart™ leaves no tail at transfer to new core
- PerfectStart™ eliminates tail-induced damage to wound product

PERFECTSTART TRANSFER™
Continuous Wind Transfer System Eliminates Waste

The FilmMaster is a turretless, continuous web winding system that eliminates waste by allowing contact between the winding and lay-on rolls even during transfer to a new core. The cantilevered shaft with quick release guarantees simplified roll handling. A multi-motor, high performance servo drive system ensures accuracy and high-speed performance.

The FilmMaster uses an electrostatic or vacuum web transfer system, depending on the substrate. That, in combination with a helical knife, produces a clean cut and reliable transfer to the new core (PerfectStart). Used in tandem, the FilmMaster incorporating PerfectStart Transfer Technology allows the widest range of web materials to be processed with the largest window of tension on either high-speed or low-speed operations.

FILMMASTER ADVANTAGES

- Space-Saving design
- Turretless cantilevered design facilitates small rolls and quick unloading
- Excellent for slippery materials
- Optimal for in-line slitting
- Continuous layon capability
- No-Fold transfers to the new core

FILMMASTER™

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Faustel offers dry bond, wet bond and thermal laminating systems for various industrial and packaging films, foils, papers, and specialty substrates. From pressure sensitive labels to food packaging materials and the latest electronic display screen technology, Faustel laminators are used to assemble market-leading products around the world.

**EXAMPLE LAMINATING SYSTEMS**
1. Thermal Film to Film
2. High Pressure Thermal Film to Film
3. Dry Bond Paper to Paper

**ACCESSORIES**
- Spreader Rolls
- Edge Guides
- Oil or Water Heating Systems
- Cooling Rolls
CONTROL SYSTEMS
Custom control systems are designed and integrated by Faustel and include a Main Operator Console, Local Operator Stations, a Sectional Drive System and Programmable Logic Controller with open source code. Also available are SCADA Systems with recipe control and diagnostics.

WEB CHILLING/HEATING
Consistent and precise post process web temperature control.

CLEAN ROOM
Many of today’s high tech products require special processing environments to ensure product quality. Faustel has over 30 years of experience designing and manufacturing clean room equipment for optical quality materials, medical device components and pharmaceuticals.

ACCUMULATORS
The use of an accumulator can provide for continuous operation of the machine during manual or semi-automated splicing or transfer sequences. Faustel’s accumulators are designed to provide smooth transitions and accurate tension control at all machine speeds.

WEB CHILLING/HEATING
Consistent and precise post process web temperature control.

TEST • ADJUST • PROVE
Leveraging our experience to improve your product.

The Technology Center helps customers successfully develop a process for new products or improve existing web processes. The Technology Center offers industry solutions in web handling, converting, coating, laminating, and winding. More than 40 coating methods provide a full range of application possibilities. Four unwinds and three rewinds allow a wide variety of web paths, offering numerous combinations of coating and laminating capabilities.

CAPABILITIES
In-house facility includes a 300 mm (12”) LabMaster Pilot Line and a 600 mm (24”) Pilot Coating Line, both capable of aqueous, 100% solids and solvent-based coating using a wide variety of methods including slot die, comma roll, knife over roll, gravure, and hot-melt coating. The Technology Center incorporates all well-known drying and curing technologies, as well as a wide variety of coating, laminating, and winding capabilities.

EQUIPMENT
1. Pilot Coating Line
   Operating Range 3-600 m/min.
   UW/RW Roll Diameter 600 mm (24”)
   Max. Web Width 635 mm (25”)

2. LabMaster Pilot Coating Line
   Operating Range 3-30 m/min.
   UW/RW Roll Diameter 300 mm (12”)
   Max. Web Width 356 mm (14”)

SPECIFICATIONS
- Coating: Aqueous, 100% Solids, Solvent-based
- Coating Methods: 40+ Methods
- Winding: 4 Unwinds, 3 Rewinds
- Laminating: Wet Bond, Dry Bond
ON TIME • ON BUDGET
One Contact Person. Every Step of the Way.

Every project begins and ends with your equipment objectives in mind. One point of contact assures that you have direct access to someone who knows everything about your equipment purchase. Your assigned Project Manager has a wealth of experience managing the schedule of custom-built equipment from our shop floor to your facility. With Faustel you have unlimited access to a Project Manager who is skillful at foreseeing bottlenecks, troubleshooting potential problems, and maintaining regular and timely communication. Providing a transparent process to our customers is our top priority.

ENGINEERING & DESIGN
Faustel engineers have an established reputation of excellence in custom converting equipment design and integration. Our experienced engineering team designs complex converting equipment across multiple industries. All engineering is done in-house.
- Controls Engineering
- Mechanical Engineering
- Process Engineering

MANUFACTURING
Our skilled technicians take care and pride in every piece of machinery they build. Proven methods and precision tools are used to ensure the highest quality standards are maintained throughout the process. All manufacturing is done in-house and includes:
- Assembly and Alignment
- Controls Wiring and Panel Building
- Mechanical and Electrical Testing

SHIPPING & INSTALLATION
Our experienced team can manage all aspects of transportation from our facility to your site, including international logistics and customs clearance. Once delivered we handle rigging, offloading, placement, alignment, utility connections and machine commissioning. Alternatively, Faustel can provide supervisory services for customers who wish to manage the installation themselves. Faustel’s coordination proficiency and adaptability to each customer’s unique requirements ensure the best possible results on your machine installation project.

SERVICE
Faustel machines are configured for remote access allowing real-time troubleshooting without having our engineer on-site, allowing you to get your machine back up and in production more quickly; all at a fraction of the cost of a service visit.

PARTS
Our expert staff has access to drawings and bills of material to make sure you get the exact part you need. Working with the top suppliers in the industry assures you quick delivery and competitive pricing; all at the highest quality standards.

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TECHNOLOGY CENTER
“We tried to work with other companies but no one else had a lab with the capability to help us with new trials and new products to the extent that Faustel could.”

PROJECT MANAGEMENT
“We wanted our operators to be involved in the process. Faustel was very willing to consider our experience and practices, and our operators felt connected to the project from the beginning.”

PROCESS KNOWLEDGE
“We knew just enough about the process to be dangerous and we needed a partner that could provide a fully-engineered turnkey solution. Faustel proved to be more than up to the task.”

CUSTOMER SERVICE
“Faustel’s representatives know their way around the floor and visit regularly to make sure everything is okay. When we need them, Faustel has always been there.”

EQUIPMENT
“We know there are others out there, but we’ll stick with Faustel because they know how to do it right.”

TECHNOLOGY CENTER
“We tried to work with other companies but no one else had a lab with the capability to help us with new trials and new products to the extent that Faustel could.”
Leading-Edge Technology
- Unwinding & Winding
- Auto-Splicers & Core Transfers
- Coating (Fixed Frame or Cartridge)
- Laminating (Wet, Dry, or Thermal Bond)
- Drying (Roll Support, Belt, or Air Flotation)
- Curing (UV, E-Beam)
- Auxiliary Systems Integration (In-Line Coat Weight Measurement, Solvent Recovery & Distillation, Thermal Oxidizers, Closed Loop Coating Delivery, Corona Treatment, and Web Cleaners)
- Clean & Dry Room Configurations
- Drives & Controls
- Installation & Start Up

Pre-Engineered Solutions (TecMaster, LabMaster and MCL)
- System Options Configurable to your Process
- Rapid Delivery
- Economical to Install

Specialized Solutions
- Battery and Battery Separators
- Reverse Osmosis Membranes
- Window Film
- Tape and Label
- Vinyl Casting
- Foil Lamination
- Medical Device & Pharmaceutical
- Don’t see your solution? Please call (262) 253-3333.

Custom Solutions
- Proven technology configured to your unique process requirements
- Stand-alone components and complete lines

Process Development
Test • Adjust • Prove QUALITY
We Help You Succeed

The In-House Technology Center is available for product development. It incorporates all well-known drying and curing technologies as well as a wide variety of coating, laminating, and winding capabilities.

Parts & Service
24-Hour Technical Support Line (262) 253-3333

The 24-hour Technical Support Line is staffed with engineering specialists who have access to drawings, PLC programs, and vendor information to provide a quick response and minimize your downtime.

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